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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
10/615,891	07/08/2003	Vishnu K. Agarwal	303.628US2	9833	
75	590 08/11/2004		EXAM	INER	
Schwegman, Lundberg, Woessner & Kluth, P.A.			WOJCIECHOWICZ,	WOJCIECHOWICZ, EDWARD JOSEPH	
Attn: Daniel J. P.O. Box 2938			ART UNIT	PAPER NUMBER	
	Minneapolis, MN 55402		2815		

DATE MAILED: 08/11/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

			4h				
	Application No.	Applicant(s)					
	10/615,891	AGARWAL					
Office Action Summary	Examiner	Art Unit					
	Edward Wojciechowicz	2815					
The MAILING DATE of this communication app Period for Reply	ears on the cover sheet with the c	orrespondence ad	ldress				
A SHORTENED STATUTORY PERIOD FOR REPLY THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.13 after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply - If NO period for reply is specified above, the maximum statutory period w - Failure to reply within the set or extended period for reply will, by statute, Any reply received by the Office later than three months after the mailing earned patent term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be tin within the statutory minimum of thirty (30) day rill apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	nely filed rs will be considered timel the mailing date of this c ED (35 U.S.C. § 133).					
Status							
1) Responsive to communication(s) filed on	<u>_</u> .						
2a) This action is FINAL . 2b) ☑ This	action is non-final.						
3) Since this application is in condition for allowar	nce except for formal matters, pro	osecution as to the	e merits is				
closed in accordance with the practice under E	x parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.					
Disposition of Claims							
4) Claim(s) 60-87 is/are pending in the application	١.						
4a) Of the above claim(s) is/are withdraw	4a) Of the above claim(s) is/are withdrawn from consideration.						
5) Claim(s) is/are allowed.							
6)⊠ Claim(s) <u>60-87</u> is/are rejected.	☑ Claim(s) <u>60-87</u> is/are rejected.						
7) Claim(s) is/are objected to.							
8) Claim(s) are subject to restriction and/or	• •						
Application Papers							
9) The specification is objected to by the Examine	r.						
10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).							
11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority under 35 U.S.C. § 119							
12) Acknowledgment is made of a claim for foreign	priority under 35 U.S.C. § 119(a)-(d) or (f).					
a) All b) Some * c) None of:	p	, (-, -: (-,-					
	1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents		ion No.					
3. Copies of the certified copies of the priority documents have been received in this National Stage							
application from the International Bureau	· ·		ou.go				
* See the attached detailed Office action for a list of the certified copies not received.							
	·						
Attachment(s)							
1) Notice of References Cited (PTO-892)	4) Interview Summary						
2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Do		D-152)				
3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date 7-8-03	6) Other:	atom replication (P1)					
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DETAILED ACTION

Claim Rejections - 35 USC § 112

The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

Claims 62, 63, 83 and 87 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 62 and 87 are not understood as to just what method is used to embed the inhibiting layer in the conductive layer, and what the result is. Claims 63 and 83 fail to clearly define the actual method being claimed. If the recited process does not proceed in the order presented, that just what is the method being claimed?

Claims 64–82 and 84-86 are also vague as to whether specific materials are required to be used in the claimed method. The presence of the word "includes" in many of the claims, after a plurality of possible choices have been identified, makes it unclear whether these claims are being further limited to those specific compounds listed. For example, in claim 67, which uses the word "includes" on two occasions, it is unclear whether ditantalum pentaoxide is required to be used in the claimed method.

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Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 60-87 are further rejected, insofar as understood, under 35 U.S.C. 102(b) as being anticipated by Sandhu et al. The reference to Sandhu teaches all of the elements of the above claims. For example, comparing the Fig. 2 structure of the reference with claim 1 of the invention, it is seen that Sandhu forms a first conductive layer (52), an insulation layer (50) abutting the first conductive layer, a second conductive layer (44) abutting the insulation layer, and an inhibiting layer (42) abutting the second conductive layer to inhibit undesired oxidation.

Sandhu also uses such conductive metal oxides as ruthenium oxide (col. 5, l.68), and may form the inhibiting layer from metal nitrides, tungsten or other metal alloys (col. 5, l.55-60), as claimed.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Edward Wojciechowicz whose telephone number is (571) 272-1739. The examiner can normally be reached on Monday - Thursday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Tom Thomas can be reached on (571) 272-1739. The

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fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Edward Wojciechowicz

Primary Examiner
Art Unit 2815

EW: ew